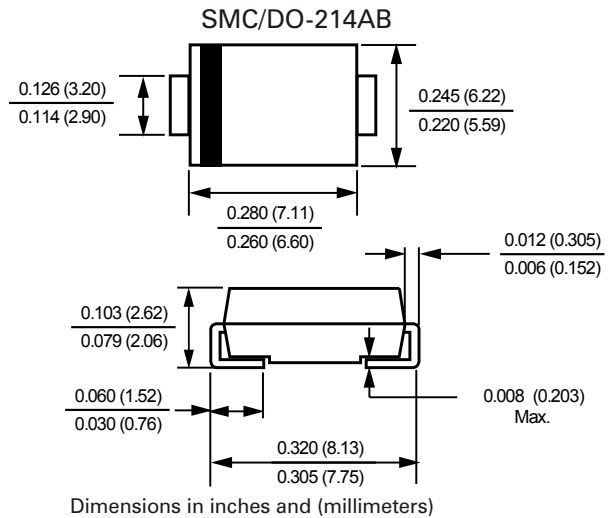


SK32C thru SK320C

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 TO 100 VOLTS CURRENT - 3.0 AMPERES



FEATURES

- Low profile package
- Ideal for automated placement
- Guard Ring for over voltage protection
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC

MECHANICAL DATA

- Case: DO-214AB (SMC)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.231grams (approximate)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified
Resistive or inductive load

PARAMETER	SYMBOL	SK32C	SK33C	SK34C	SK35C	SK36C	SK38C	SK310C	SK315C	SK320C	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I _F	3.0									A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	80.0									A
Maximum instantaneous I _F =3A @ 25°C	V _F	0.50			0.70		0.85		0.87	0.90	V
Maximum DC reverse current @ TA=25°C	I _R	0.5					0.2				mA
at rated DC blocking voltage @ TA=100°C		10.0					5.0				
Typical junction capacitance	C _J	180			150		110		100	80	pF
Typical thermal resistance	R _{θJA}	70									°C/W
	R _{θJC}	30									
Operating temperature range	T _J	-55 to +125									°C
Storage temperature range	T _{STG}	-55 to +150									°C

SK32C thru SK320C

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

RATING AND CHARACTERISTICS CURVES SK32C THRU SK320C

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

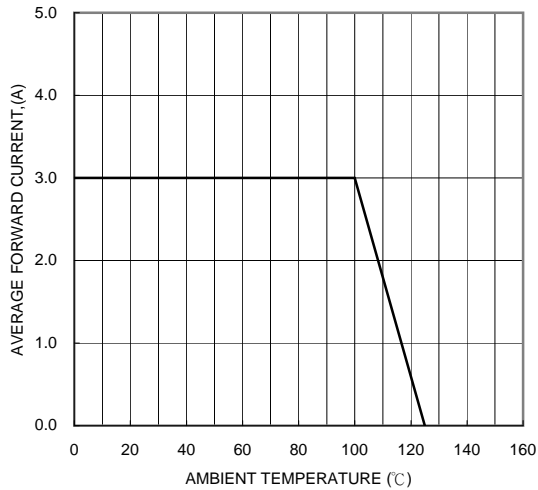


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

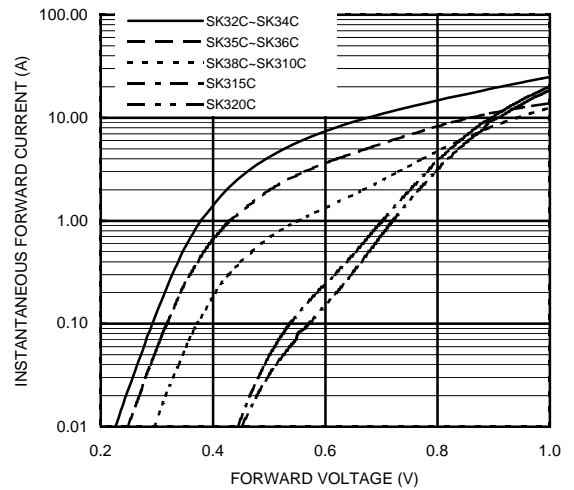


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

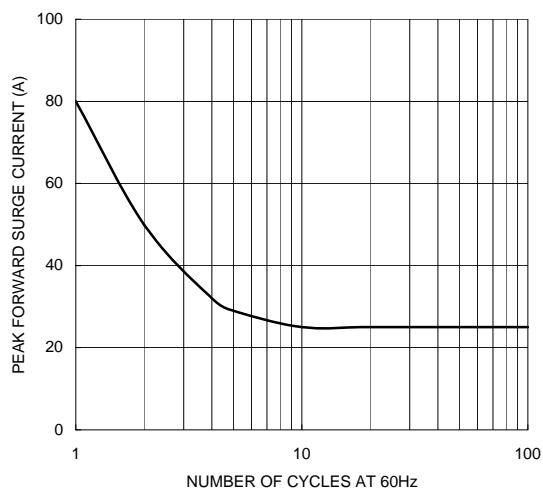


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

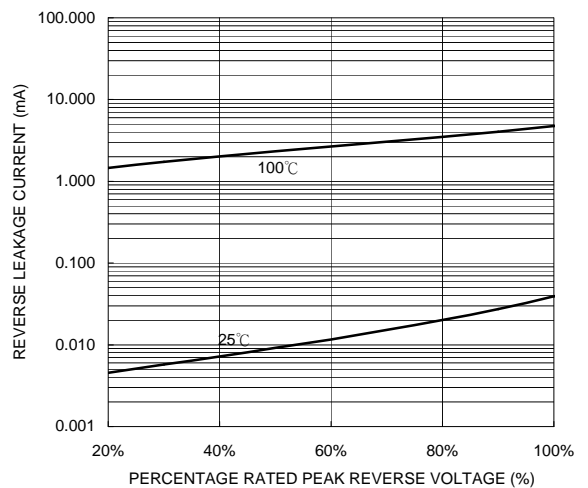


FIG. 5-TYPICAL JUNCTION CAPACITANCE

